

ECE TYPE-APPROVAL CERTIFICATE

Communication concerning approval extended
of a type of LPG equipment pursuant to
Regulation No. 67.



Approval No: **E24 67R-010017**

Extension No: **02.**

Reason(s) for extension:

Adding new measures I.D. 5mm and O.D. 10.5mm

1. LPG Equipment Considered:
~~Container including the configuration of accessories fitted to the container, as laid down in Appendix 1 to this annex.~~
~~80 per cent stop valve~~
~~Level indicator~~
~~Pressure relief valve (discharge valve)~~
~~Pressure relief device~~
~~Remotely controlled service valve with excess flow valve~~
~~Multivalve, including the following accessories:~~
~~Gas tight housing~~
~~Power supply bushing (pump/actuators)~~
~~Fuel pump~~
~~Vaporizer/pressure regulator~~
~~Shut off valve~~
~~Non return valve~~
~~Gas tube pressure relief valve~~
~~Service coupling~~
~~Flexible hose~~
~~Remote filling unit~~
~~Gas injection device or injector~~
~~Fuel rail~~
~~Gas dosage unit~~
~~Gas mixing piece~~
~~Electronic control unit~~
~~Pressure/temperature sensor~~
~~LPG filter unit~~

Type: TU-GAS C**

2. Trade name or mark:

THUNDERFLEX, CIDAT

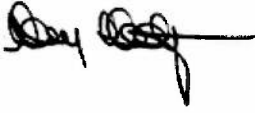
3. Manufacturer's name and address:

**SC THUNDERFLEX SRL,
Str. Vladeasa, nr. 43 B,
405400 Huedin, (CG),
Romania.**



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4. If applicable, name and address of manufacturer's representative: **N/A.**
5. Submitted for approval on: **As before and 07.08.2014-17.02.2015**
6. Technical service responsible for conducting approval tests: **CSI S.p.A.,
V.le Lombardia, 20,
20021 Bollate (MI),
Italy.**
7. Date of report issued by that service: **02.03.2015**
8. No. of report issued by that service: Former: **0006\ISP\OML\12
0182\ISP\OML\12**
New: **0008\ISP\OMLS\15_2**
9. Approval ~~granted/ refused/ extended/ withdrawn~~: **Extended.**
10. Reason(s) of extension (if Applicable): **Adding new measures I.D. 5mm
and O.D. 10.5mm.**
11. Place: **Dublin.**
12. Date: **14th May, 2015.**
13. Signature: 
14. The documents filed with the application or extension of approval can be obtained upon request:
Documentation: **9 pages**





NSAI
Certification

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Extension No: **02.**

Annex 2B – Appendix 1 (Containers Only)

1. Container characteristics from the parent container (configuration 00): *N/A.*
- (a) Trade name or mark: *N/A.*
- (b) Shape: *N/A.*
- (c) Material: *N/A.*
- (d) Openings: *N/A.*
- (e) Wall thickness: *N/A.*
- (f) Diameter (cylindrical container): *N/A.*
- (g) Height (specific container shape): *N/A.*
- (h) External surface: *N/A.*
- (i) Configuration of accessories fitted to container, see table 1: *N/A.*

Table 1

No.	Item	Type	Approval No.	Extension No.
a	80 per cent stop valve			
b	Level indicator			
c	Pressure relief valve			
d	Remotely controlled service valve with excess valve			
e	Fuel pump			
f	Multi-valve			
g	Gas-tight housing			
h	Power supply bushing			
i	Non return valve			
j	Pressure relief device			



2. List of the container family:

N/A.

The lists of the container family indicate the diameter, capacity, external surface and the possible configuration(s) of the accessories fitted to the container.

N/A.

Table 2

No.	Type	Diameter/height [mm]	Capacity [L]	External surface [cm ²]	Configuration of accessories [code] 1/
a					
b					

1/ Code 00 and, if applicable, same code(s) from table 3.

3. Lists of the possible configurations of accessories fitted to the container:

N/A.

Specify a list of the possible accessories, which differ from the tested configuration of accessories (code 00) and which may be fitted to the type of container. Specify for all accessories, type, approval number and extension number, indicating its own configuration code.

Table 3

No.	Accessories	Type	Approval No.	Extension No.	Configuration of accessories [code]
a					
b					
c					
d					

Index to the Information Package

Date of issue: **16th February, 2012.**

Date of latest amendment: **14th May, 2015.**

Reason for extension/revision: **Adding new measures (see attached document)**

1. Additional conditions, and advisory notes on legal alternatives.

2. Test report(s)

- numbers(s): Former: **0006\ISP\OML\12**
 0182\ISP\OML\12
 New: **0008\ISP\OMLS\15_2**

- date of issue: **07.02.2012**

- date of latest amendment: **02.03.2015**

3. Information document

- number(s): **N/A**

- date of issue: **N/A**

- date of latest amendment: **N/A**

Documentation: **9 pages**

Appendix: Additional conditions, and advisory notes on legal alternatives

A: Additional conditions:

1. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
2. Each type from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
3. Changes in the type are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
4. At regular intervals, any tests or associated checks prescribed by the applicable legislation to verify continued conformity with the approved type shall be carried out. The manufacturer shall demonstrate compliance with this by submitting to NSAI evidence of adequate arrangements and documented control plans for each type approved.
5. Any set of samples or test pieces showing evidence of non-conformity shall give rise to further sampling and testing and all steps shall be taken to restore conformity of production.
6. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
7. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to NSAI.
8. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
9. When the manufacture or sale of the system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B: Legal Options:

Any objection to the requirements set out in this certificate shall be made within one month of the date of issue. The objection shall be made, in writing, to NSAI in Dublin.



www.thunderflex.ro

S.C. THUNDERFLEX S.R.L.

Str. Vlădeasa nr. 43B
405400 Huedin (CJ), România

Certified Management System
EN ISO 9001:2008
Cert. Reg. No 20 100 112005932



Pg. 1/1

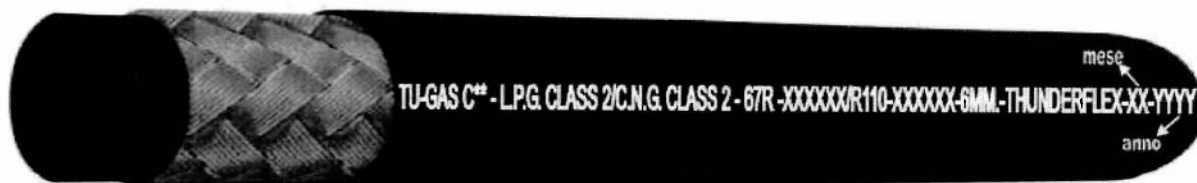
APPLICATION FOR EXTENSION OF OMOLOGATION OF ECE APPROVAL
N.r E24 110R 000039 and N.r E24 67R 010017

INTRODUCTION

Extension is required for adding new measures (see table n. 1)

TECHNICAL DATA

Manufacturer: SC THUNDERFLEX SRL
Trade mark: THUNDERFLEX; CIDAT
Type: TU-GAS C**
Design Temperature: -25°C ÷ 125°C
Working Temperature: -25°C ÷ 120°C
Inner tube : Black, smooth insulating, LPG and CNG permeation resistant NBR rubber compound. COMM SOTT. 72 (3572)
Reinforcement: One high tensile textile braid polyester.
Cover: Black, smooth insulating, CSM rubber compound resistant to ageing, heat, abrasion, ozone and weathering. COPR 67(2167)
Tolerances: According to ISO 1307/97



HOSE	I.D. [mm]	O.D. [mm]	WP [bar]	BP [bar]
67R-110R HOSE TYPE TU - GAS - C**	4	10	4,5	18
67R-110R HOSE TYPE TU - GAS - C**	5	10.5	4,5	18
67R-110R HOSE TYPE TU - GAS - C**	6.3	13	4,5	18
67R-110R HOSE TYPE TU - GAS - C**	10	17	4,5	18
67R-110R HOSE TYPE TU - GAS - C**	12	19	4,5	18
67R-110R HOSE TYPE TU - GAS - C**	14	22	4,5	18
67R-110R HOSE TYPE TU - GAS - C**	16	24	4,5	18
67R-110R HOSE TYPE TU - GAS - C**	16,5	24,5	4,5	18
67R-110R HOSE TYPE TU - GAS - C**	17	24	4,5	18
67R-110R HOSE TYPE TU - GAS - C**	19	27	4,5	18
67R-110R HOSE TYPE TU - GAS - C**	25	34	4,5	18

BANK: INTESA SANPAOLO BANK ROMANIA SA
SWIFT: WBANRO22XXX
IBAN (Euro): RO25WBAN2511022013501493
VAT ID No.: RO18995579
Commerce Reg. N.r.: J12 / 2947 / 2006
Social Capital.: 2.100.000 EUR

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PP012-F03 r0

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Rev. Date 2011-07-26

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